PATENT COOPERATION TREATY

om the INTERNATIONAL SEARCHING AUTHORITY PCT			
52 521 Ramat Gan ISRAEL 21 AUG 20	(PCT Rule 44.1) Date of mailing		
	(day/month/year) 16/08/2005		
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below		
29330 International application No.	International filing date		
PCT/IL2005/000481	(day/month/year) 05/05/2005		
Applicant			
RENOPHARM LTD.			
KENOPHARI BID.			
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim When? The time limit for filing such amendments is non International Search Report; however, for more Where? Directly to the International Bureau of WIPO, 34 1211 Geneva 20, Switzerland, Fa For more detailed instructions, see the notes on the accordance of the International search Article 17(2)(a) to that effect and the written opinion of the International search Article 17(2)(a) to that effect and the written opinion of the International search Article 17(2)(a) to that effect and the written opinion of the International search Article 17(2)(a) to that effect and the written opinion of the International search are used to forward the texts of both the process of the protest together with the decision thereon has been applicant's request to forward the texts of both the process of the protest together with the decision thereon has been no decision has been made yet on the protest; the applicant on the protest; the application, or of the priority claim, must reach the International Bureau. If the applicant wishes to avoid or postpone application, or of the priority claim, must reach the International Enternational Enternational Bureau. The International preparations for international Preliminary examination report has been or is to be the public but not before the expiration of 30 months from the priority date, but only in respect of seamination must be filed if the applicant wishes to postpone the date (in some Offices even later); otherwise, the applicant must, acts for entry into the national phase before those designated Offices the Annex to Form PCT/IB/301 and, for details about the applicance, Volume II, National Chapters and the WIPO Internet site	is of the International Application (see Rule 46): mally 2 months from the date of transmittal of the details, see the notes on the accompanying sheet. chemin des Colombettes siscimile No.: (41–22) 740.14.35 impanying sheet. In report will be established and that the declaration under international Searching Authority are transmitted herewith. In transmitted to the International Bureau together with the destand the decision thereon to the designated Offices. Indicant will be notified as soon as a decision is made. The international application will be published by the application, a notice of withdrawal of the international Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, and publication. The written opinion of the International Searching Authority to the of such comments to all designated Offices unless an established. These comments would also be made available to ority date. The designated Offices, a demand for international preliminary entry into the national phase until 30 months from the priority within 20 months from the priority date, perform the prescribed fices. The comments is of the international is filed within 19 The plicable time limits, Office by Office, see the PCT Applicant's		
Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Federico Bonomelli		

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the international Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended, it must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220	
29330	ACTION		as, where applicable, item 5 below.	
International application No.	International filing date (day/month)	'year)	(Earliest) Priority Date (day/month/year)	
PCT/IL2005/000481	05/05/2005 05/05/2004			
Applicant				
RENOPHARM LTD.				
This International Search Report has bee according to Article 18. A copy is being tr	n prepared by this International Sear ansmitted to the International Bureau	ching Auth	nority and is transmitted to the applicant	
This International Search Report consists	s of a total of she	ets.		
	a copy of each prior art document cl		report.	
Basis of the report a. With regard to the language, the language in which it was filed, ur	international search was carried out less otherwise indicated under this it	on the bas	sis of the international application in the	
	search was carried out on the basis		ation of the international application furnished to	
1		disclosed	in the international application, see Box No. I.	
2. Certain claims were for	und unsearchable (See Box II).			
3. Unity of invention is la	cking (see Box III).			
4. With regard to the title,			•	
<u> </u>	submitted by the applicant.			
1 Lemmi	ished by this Authority to read as folio	ws:		
NITRIC OXIDE DONORS A				
	•			
5. With regard to the abstract,				
	submitted by the applicant.		or to the Davids IV. The emplished	
the text has been estab may, within one month	lished, according to Rule 38.2(b), by the form the date of mailing of this internations.	this Author itional sea	rity as it appears in Box No. IV. The applicant rch report, submit comments to this Authority.	
6. With regard to the drawings ,		*1=		
-	e published with the abstract is Figure	NO		
as suggested b			and a floring	
	this Authority, because the applicant			
	this Authority, because this figure bet	ter charac	terizes the invention.	
b. X none of the figures is to	be published with the abstract.			

INTERNATIONAL SEARCH REPORT

International Application No PCT/IL2005/000481

A. CLASSIFICATION OF SUBJECT MATTER 1PC 7 C07D277/24 C07D277/34 C07D277/40 C07D417/04 C07D277/50 C07D417/12 C07D277/46 A61K31/426 A61K31/4439

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ll} \text{Minimum documentation searched (classification system followed by classification symbols)} \\ \text{IPC 7} & \text{C07D} & \text{A61K} \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data

ategory °	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
	WO 01/49275 A (QUEEN'S UNIVERSITY AT KINGSTON; THATCHER, GREGORY, R., J; BENNETT, BRI) 12 July 2001 (2001-07-12) page 2, line 8 - page 5, line 29; compounds IIIF, IVK	1-198
4	WO 03/086282 A (NITROMED, INC; FANG, XINQIN; GARVEY, DAVID, S; GASTON, RICKY, D; LIN,) 23 October 2003 (2003-10-23) page 22, line 1 - page 24, line 9; claim 1	1-8, 57-74, 140-150 9-56, 75-139, 151-198
	-/- -	

X Further documents are listed in the continuation of box C.	Y Patent family members are listed in annex.		
Special categories of cited documents: A* document defining the general state of the art which is not considered to be of particular relevance E* earlier document but published on or after the international filing date L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O* document referring to an oral disclosure, use, exhibition or other means P* document published prior to the international filing date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family 		
Date of the actual completion of the international search 8 August 2005	Date of mailing of the international search report 16/08/2005		
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Usuelli, A		

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/IL2005/000481

	TO BE DELEVANT	
	otion) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, or the relevant passages	
A	KUMAR S ET AL: "Design, Synthesis, and Evaluation of alpha-Ketoheterocycles as Class C Beta-Lactamase Inhibitors" BIOORGANIC & MEDICINAL CHEMISTRY, ELSEVIER SCIENCE LTD, GB, vol. 9, 2001, pages 2035-2044, XP002206636 ISSN: 0968-0896	75–139
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International application No. PCT/IL2005/000481

INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: ———————————————————————————————————
Although claims 62-74, 140-198 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the daims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/IL2005/000481

Patent document cited in search report		Publication date	-	Patent family member(s)	Publication date
WO 0149275	A	12-07-2001	AT AU WO CA DE EP ES HK JP US	283695 T 2335101 A 0149275 A2 2394184 A1 60016460 D1 1246625 A2 1518553 A2 2233489 T3 1050144 A1 2003519176 T 2005137191 A1	15-12-2004 16-07-2001 12-07-2001 12-07-2001 05-01-2005 09-10-2002 30-03-2005 16-06-2005 08-07-2005 17-06-2003 23-06-2005
WO 03086282	A	23-10-2003	AU CA EP WO US	2003223491 A1 2480832 A1 1497268 A2 03086282 A2 2003203915 A1	27-10-2003 23-10-2003 19-01-2005 23-10-2003 30-10-2003